Low Pass Filter

DC to 2750 MHz 50Ω

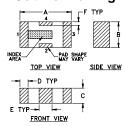
Maximum Ratings

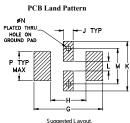
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max. at 25°C
Max. DC Voltage at pins 1&3	25 VDC
DC Current Input to Output	0.5A max_at 25°C

Pin Connections

RF IN	1_
RF OUT	3
GROUND	2,4

Outline Drawing

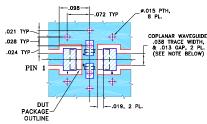




Outline Dimensions (inch)

	G	F	E	D	С	В	Α
	.169	.009	.032	.020	.037	.063	.126
	4.29	0.23	0.81	0.51	0.94	1.60	3.20
wt	Р	N	M	L	K	J	Н
grams	.071	.012	.087	.024	.122	.024	.087
.020	1.80	0.30	2.21	0.61	3.10	0.61	2.21

Demo Board MCL P/N: TB-270 Suggested PCB Layout (PL-137)



NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 .02 EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.

2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE. DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- excellent power handling, 10W
- small size
- 7 sections
- temperature stable
- LTCC construction
- protected by U.S. Patent 6,943,646

Applications

- harmonic rejection
- VHF/UHF transmitters/receivers
- lab use

LFCN-2750D+



CASE STYLE: FV1206 PRICE: \$2.49 ea. QTY (20)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

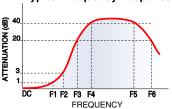
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications¹ at 25°C

Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-2750	_	_	1.2	dB
Pass Band	Freq. Cut-Off	F2	3300	_	3.0	_	dB
	VSWR	DC-F1	DC-2750	_	1.2	_	:1
		F3	4000	20	_	_	dB
Stop Band	Rejection Loss	F4-F5	4150-6800	_	30	_	dB
Stop Band		F6	8400	_	20	_	dB
	VSWR	F3-F6	4000-8400	_	20	_	:1

1. DC Resistance to ground is 100 Mohms min.

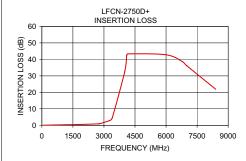
Typical Frequency Response Electrical Schematic

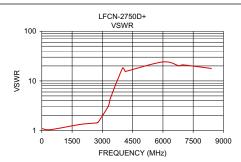




Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)		
1.00	0.03	1.10		
400.00	0.17	1.04		
1900.00	0.53	1.33		
2725.00	0.91	1.43		
2750.00	0.94	1.45		
2800.00	0.99	1.49		
3300.00	3.01	3.14		
3400.00	4.48	4.50		
4000.00	32.38	18.06		
4100.00	42.32	16.48		
4150.00	43.35	15.58		
6000.00	42.80	24.10		
6800.00	38.53	20.16		
7000.00	36.14	20.99		
8400.00	21.90	17.79		





For detailed performance specs

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipality.com IF/RF MICROWAVE COMPONENTS

^{*} Derate linearly to 3.5W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.